Comparisons of Job Characteristics

Focus Occupation: Model Makers, Metal and Plastic (51-4061)
Associated Occupation: Tool and Die Makers (51-4111)

Compare Knowledge
Compare Skills
Compare Abilities
Compare Detailed Work Activities
Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 96

Focus Occupation: Model Makers, Metal and Plastic (51-4061)
Associated Occupation: Tool and Die Makers (51-4111)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Mechanical	6.8	17.6	16.9	0	Current knowledge level may be sufficient
Design	5.2	15.6	11.6	<<	Extensive education and/or training may be required
Mathematics	9.2	14.2	11.7	<	Expanded education and/or training may be required
Engineering and Technology	5.7	12.8	9.6	<<	Extensive education and/or training may be required
Production and Processing	6.0	10.6	12.5	>	Current knowledge level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 81

Focus Occupation: Model Makers, Metal and Plastic (51-4061)
Associated Occupation: Tool and Die Makers (51-4111)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Operation and Control	5.4	9.6	10.6	>	Skill level is likely sufficient
Equipment Selection	3.3	7.2	8.0	>	Skill level is likely sufficient
Equipment Maintenance	3.5	6.4	6.7	0	Current skill level may be sufficient
Technology Design	2.6	6.3	4.5	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 84

Focus Occupation: Model Makers, Metal and Plastic (51-4061)
Associated Occupation: Tool and Die Makers (51-4111)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Visualization	7.5	12.1	11.6	0	Current ability level may be sufficient
Control Precision	6.6	11.2	10.7	0	Current ability level may be sufficient
Category Flexibility	9.0	10.6	8.1	<<	Extensive improvement in abilities may be required
Arm-Hand Steadiness	6.8	10.5	10.6	0	Current ability level may be sufficient
Selective Attention	8.7	10.5	9.7	0	Current ability level may be sufficient
Reaction Time	4.8	8.3	11.6	>>	Current ability level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 100

Focus Occupation: Model Makers, Metal and Plastic (51-4061)
Associated Occupation: Tool and Die Makers (51-4111)

Work Activities	Exclusivity of Activity
Adjust production equipment/machinery setup	25
Design tools or mechanical devices	85
Determine tasks needed to complete machined products	87
Examine products or work to verify conformance to specifications	15
Fabricate, assemble, or disassemble manufactured products by hand	11
Identify base metals for welding	68
Lay out machining, welding or precision assembly projects	63
Monitor production machinery/equipment operation to detect problems	27
Operate metal or plastic fabricating equipment/machinery	54
Perform safety inspections in manufacturing or industrial setting	33
Read blueprints	10
Read specifications	23
Read technical drawings	7
Recognize characteristics of alloys	71
Recognize characteristics of metals	62
Set up and operate variety of machine tools	62
Set up computer numerical control machines	69
Set up production equipment or machinery	51
Solve machine tool problems	89
Understand machine setup instructions	74
Understand technical operating, service or repair manuals	6

Use arc welding equipment	62
Use hand or power tools	2
Use machining practices	92
Use non-destructive test equipment	82
Use precision measuring tools or equipment	17
Use x-ray or magnetic inspection techniques	84
Weld together metal parts, components, or structures	54

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: n/a

Focus Occupation: Model Makers, Metal and Plastic (51-4061)
Associated Occupation: Tool and Die Makers (51-4111)

Tools and Technologies	Exclusivity
Tools and technology data is unavailable for one or both occupations.	

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.